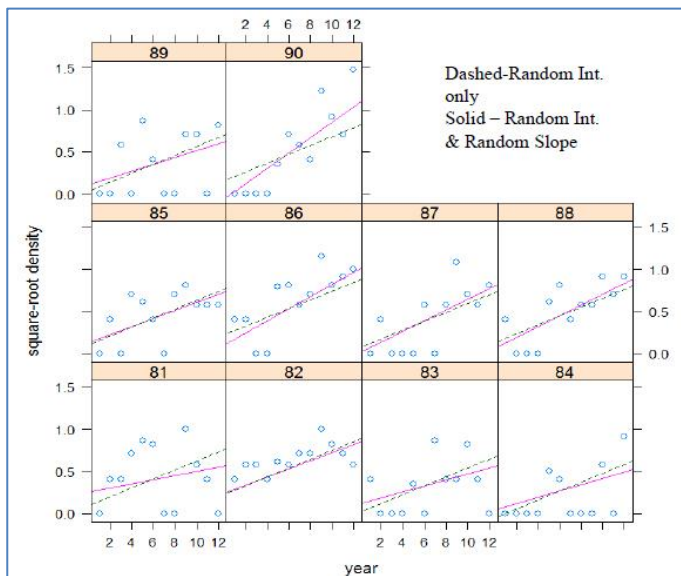## Statistical Modeling for Conservation

CSP4210

Course Description

This course focuses on modeling trends and population-habitat relationships. Emphasis is placed on model development, interpretation, understanding assumptions and evaluation of competing models. The class is highly interactive and is project driven. Students are encouraged to bring their own data sets to class.

Objectives

Upon completion of this course, you will be able to:

✓ Develop simple linear and multiple linear regression models.

✓ Use generalized linear models (e.g., logistic regression) to develop predictive species distributions.

✓ Conduct trend analysis via linear and generalized linear mixed models.

✓ Perform variable selection and screening, and compare models using AIC, BIC and cross-validation techniques.

✓ Evaluate multicollinearity and diagnose outliers.

Dates & Location
Jan 22-26, 2018 - NCTC

Prerequisites
CSP4200 or course leader approval.

Who Should Attend
Anyone interested in utilizing statistical tools in research, management and decision-making.

Course Length
4.5 days

Tuition
Free for FWS, BLM and NPS employees, all others the cost will be $1,195.00.

To Register
Log in and search the DOI Learn catalog for **CSP4210**

Course Contact
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"I will now be able to analyze our data without going to a consultant to conduct the analysis."